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In situ hybridization; Angiogenesis; Vasculogenesis; Development; Ephrin; Eph 77, 201

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Inner ear; Calcitonin; Calcitonin gene-related peptide; Early development; Embryogenesis; Gene expression; RNA splicing; In situ hybridization histochemistry; Immunohistochemistry; Floor plate; Rhomb-

encephalon; Central nervous system; Otic primordium; C cell; Ultimobranchial gland; Thyroid gland; Chick embryo 77, 81

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Mesoderm: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Mitochondria: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Mitogen activated protein kinase: CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Transcription factor; Activation domain; DNA binding domain; *Xenopus laevis*; Development; Expression profile; Transcriptional activator; DNA sequence; Electrophoretic mobility shift assays; Transient transfection assays; Embryogenesis; Temporal and spatial expression profile; Reverse transcription-polymerase chain reaction; Whole mount in situ hybridization; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

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Muscle: Gene expression; *Serrate1*; *Serrate2*; *Notch1*; *Delta1*; Notch signalling; *MyoD*; Chick limb; Tendon; Vasculature; Hand plate; Digit spacing; Mesenchyme 77, 197

MyoD: Gene expression; *Serrate1*; *Serrate2*; *Notch1*; *Delta1*; Notch signalling; Chick limb; Muscle; Tendon; Vasculature; Hand plate; Digit spacing; Mesenchyme 77, 197

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Neurogenin: COE factors; Primary neurogenesis; *Xcoe2*; *Zcoe2*; *EBF*; *Collier*; *Danio rerio* 77, 85

Neurula: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Nieuwkoop center: β -Catenin; Tcf-3; Wnt pathway; Spemann organizer; Axis induction; Dorsal-ventral patterning; Zebrafish 77, 63

Notch1: Gene expression; *Serrate1*; *Serrate2*; *Delta1*; Notch signalling; *MyoD*; Chick limb; Muscle; Tendon; Vasculature; Hand plate; Digit spacing; Mesenchyme 77, 197

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Partial cDNA sequencing: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Pattern formation: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

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Proliferation: Nuclear receptor; Transcription factor; Retinal progenitor; Cell cycle; Biolistic transfection 77, 149

Regionalization: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Retinal progenitor: Proliferation; Nuclear receptor; Transcription factor; Cell cycle; Biolistic transfection 77, 149

Reverse transcription-polymerase chain reaction: CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Transcription factor; Activation domain; DNA binding domain; *Xenopus laevis*; Development; Expression profile; Transcriptional activator; Mitogen activated protein kinase; DNA sequence; Electrophoretic mobility shift assays; Transient transfection assays; Embryogenesis; Temporal and spatial expression profile; Whole mount in situ hybridization; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

Rhombencephalon: Calcitonin; Calcitonin gene-related peptide; Early development; Embryogenesis; Gene expression; RNA splicing; In situ hybridization histochemistry; Immunohistochemistry; Floor plate; Central nervous system; Otic primordium; Inner ear; C cell; Ultimobranchial gland; Thyroid gland; Chick embryo 77, 81

RNA localization: Determinant; RNA-binding protein; Orb; CPEB; Zebrafish oogenesis 77, 31

RNA splicing: Calcitonin; Calcitonin gene-related peptide; Early development; Embryogenesis; Gene expression; In situ hybridization histochemistry; Immunohistochemistry; Floor plate; Rhombencephalon; Central nervous system; Otic primordium; Inner ear; C cell; Ultimobranchial gland; Thyroid gland; Chick embryo 77, 81

RNA-binding protein: RNA localization; Determinant; Orb; CPEB; Zebrafish oogenesis 77, 31

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Screening: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

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Serrate2: Gene expression; *Serrate1*; *Notch1*; *Delta1*; Notch signalling; *MyoD*; Chick limb; Muscle; Tendon; Vasculature; Hand plate; Digit spacing; Mesenchyme 77, 197

Spatio-temporal expression: Cell adhesion molecule; RPTase family; Mouse development; Basal lamina 77, 59

Spemann organizer: β -Catenin; Tcf-3; Wnt pathway; Nieuwkoop center; Axis induction; Dorsal-ventral patterning; Zebrafish 77, 63

Synexpression: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Tailbud: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional

genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Tcf-3; β -Catenin; Wnt pathway; Nieuwkoop center; Spemann organizer; Axis induction; Dorsal-ventral patterning; Zebrafish 77, 63

Tcf-4; Wnt signaling; β -Catenin; Neural development; Limb bud 77, 9

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Tendon: Gene expression; *Serrate1*; *Serrate2*; *Notch1*; *Delta1*; Notch signalling; *MyoD*; Chick limb; Muscle; Vasculature; Hand plate; Digit spacing; Mesenchyme 77, 197

Thyroid gland: Calcitonin; Calcitonin gene-related peptide; Early development; Embryogenesis; Gene expression; RNA splicing; In situ hybridization histochemistry; Immunohistochemistry; Floor plate; Rhombencephalon; Central nervous system; Otic primordium; Inner ear; C cell; Ultimobranchial gland; Chick embryo 77, 81

Tissue relatedness: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Gastrulation; Transcriptional regulation; Amphibian 77, 95

Transcription factor: CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Activation domain; DNA binding domain; *Xenopus laevis*; Development; Expression profile; Transcriptional activator; Mitogen activated protein kinase; DNA sequence; Electrophoretic mobility shift assays; Transient transfection assays; Embryogenesis; Temporal and spatial expression profile; Reverse transcription-polymerase chain reaction; Whole mount in situ hybridization; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

Transcription factor: Proliferation; Nuclear receptor; Retinal progenitor; Cell cycle; Biolistic transfection 77, 149

Transcriptional activator: CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Transcription factor; Activation domain; DNA binding domain; *Xenopus laevis*; Development; Expression profile; Mitogen activated protein kinase; DNA sequence; Electrophoretic mobility shift assays; Transient transfection assays; Embryogenesis; Temporal and spatial expression profile; Reverse transcription-polymerase chain reaction; Whole mount in situ hybridization; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

Transcriptional regulation: Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionaliza-

tion; Synexpression; *Xenopus laevis*; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Amphibian 77, 95

Transient transfection assays; CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Transcription factor; Activation domain; DNA binding domain; *Xenopus laevis*; Development; Expression profile; Transcriptional activator; Mitogen activated protein kinase; DNA sequence; Electrophoretic mobility shift assays; Embryogenesis; Temporal and spatial expression profile; Reverse transcription-polymerase chain reaction; Whole mount in situ hybridization; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

β -TrCP; *Xenopus*; *Wnt/\beta*-catenin pathway; Dorsal axis; F-box; WD40-repeat 77, 75

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Vasculature; Gene expression; *Serrate1*; *Serrate2*; *Notch1*; *Delta1*; Notch signalling; *MyoD*; Chick limb; Muscle; Tendon; Hand plate; Digit spacing; Mesenchyme 77, 197

Vasculogenesis; Angiogenesis; Development; In situ hybridization; Ephrin; Eph 77, 201

Vertebral development; *Hox* gene; Gene targeting 77, 49

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Whole mount in situ hybridization; CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Transcription factor; Activation domain; DNA binding domain; *Xenopus laevis*; Development; Expression profile; Transcriptional activator; Mitogen activated protein kinase; DNA

sequence; Electrophoretic mobility shift assays; Transient transfection assays; Embryogenesis; Temporal and spatial expression profile; Reverse transcription-polymerase chain reaction; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

***Wnt/\beta*-catenin pathway;** *Xenopus*; β -TrCP; Dorsal axis; F-box; WD40-repeat 77, 75

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***Xenopus*;** β -TrCP; *Wnt/\beta*-catenin pathway; Dorsal axis; F-box; WD40-repeat 77, 75

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***Xenopus laevis*;** CCAAT-enhancer binding protein β ; Basic-leucine zipper domain; Transcription factor; Activation domain; DNA binding domain; Development; Expression profile; Transcriptional activator; Mitogen activated protein kinase; DNA sequence; Electrophoretic mobility shift assays; Transient transfection assays; Embryogenesis; Temporal and spatial expression profile; Reverse transcription-polymerase chain reaction; Whole mount in situ hybridization; Western blot analysis; Blastopore lip; Endodermal cell 77, 143

***Xenopus laevis*;** Chromatin; Delta; Endoplasmic reticulum; Bmp4; Functional genomics; Gene expression; Genome; Regionalization; Synexpression; Screening; In situ hybridization; Expressed sequence tags; Partial cDNA sequencing; Early development; Epidermis; Tailbud; Gastrula; Embryology; Developmental biology; Database; Differentiation; cDNA sequencing; Expression profiles; Neurula; Pattern formation; Mesoderm; Ectoderm; Endoderm; Mitochondria; Tissue relatedness; Gastrulation; Transcriptional regulation; Amphibian 77, 95

***Zcoe2*;** COE factors; Primary neurogenesis; Neurogenin; *Xcoe2*; *EBF*; *Collier*; *Danio rerio* 77, 85

Zebrafish oogenesis; RNA localization; Determinant; RNA-binding protein; Orb; CPEB 77, 31

Zebrafish; β -Catenin; Tcf-3; Wnt pathway; Nieuwkoop center; Spemann organizer; Axis induction; Dorsal patterning 77, 63

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